Welcome

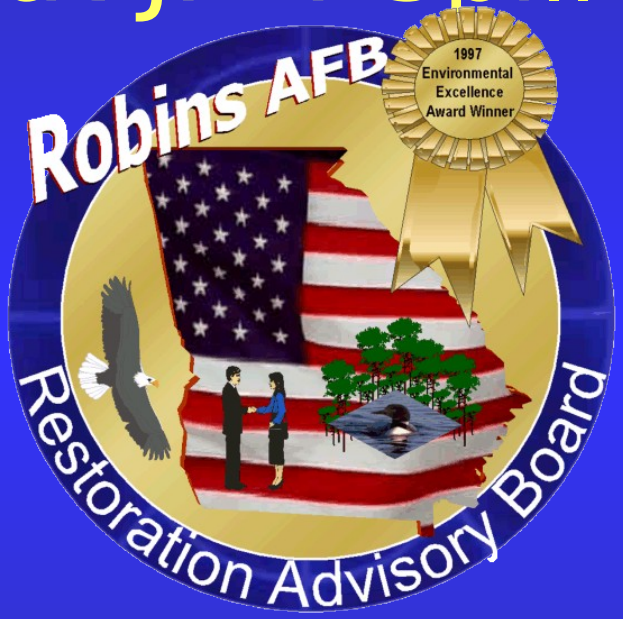
Public Meeting

for Corrective Action Completion

at JP-4 Spill Site

Robins Air Force Base

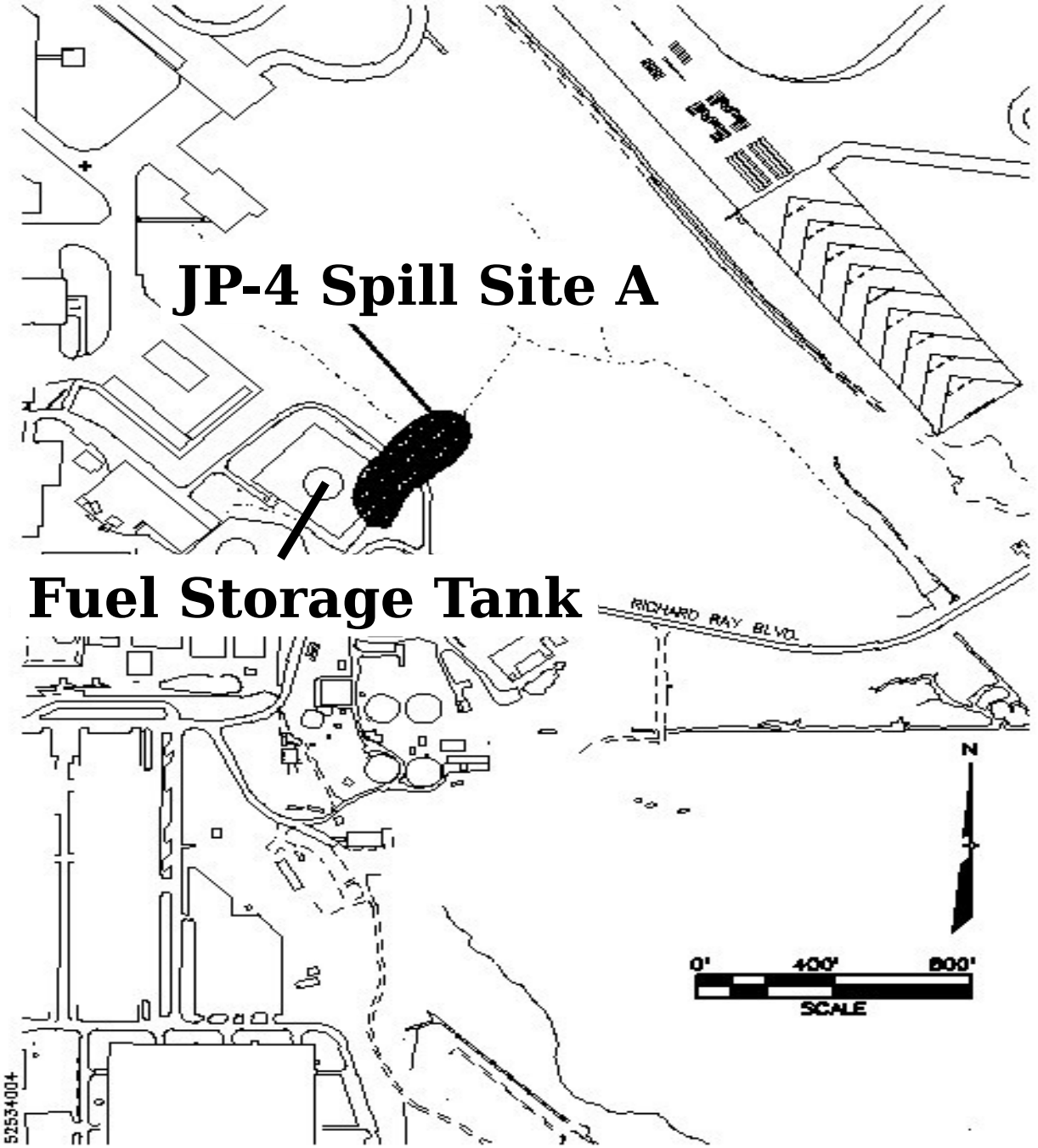
Public Meeting for Corrective Action Completion at JP-4 Spill Site



Mr. Kevin Long and

Mr. Phil Manning, WR-ALC/EMQ

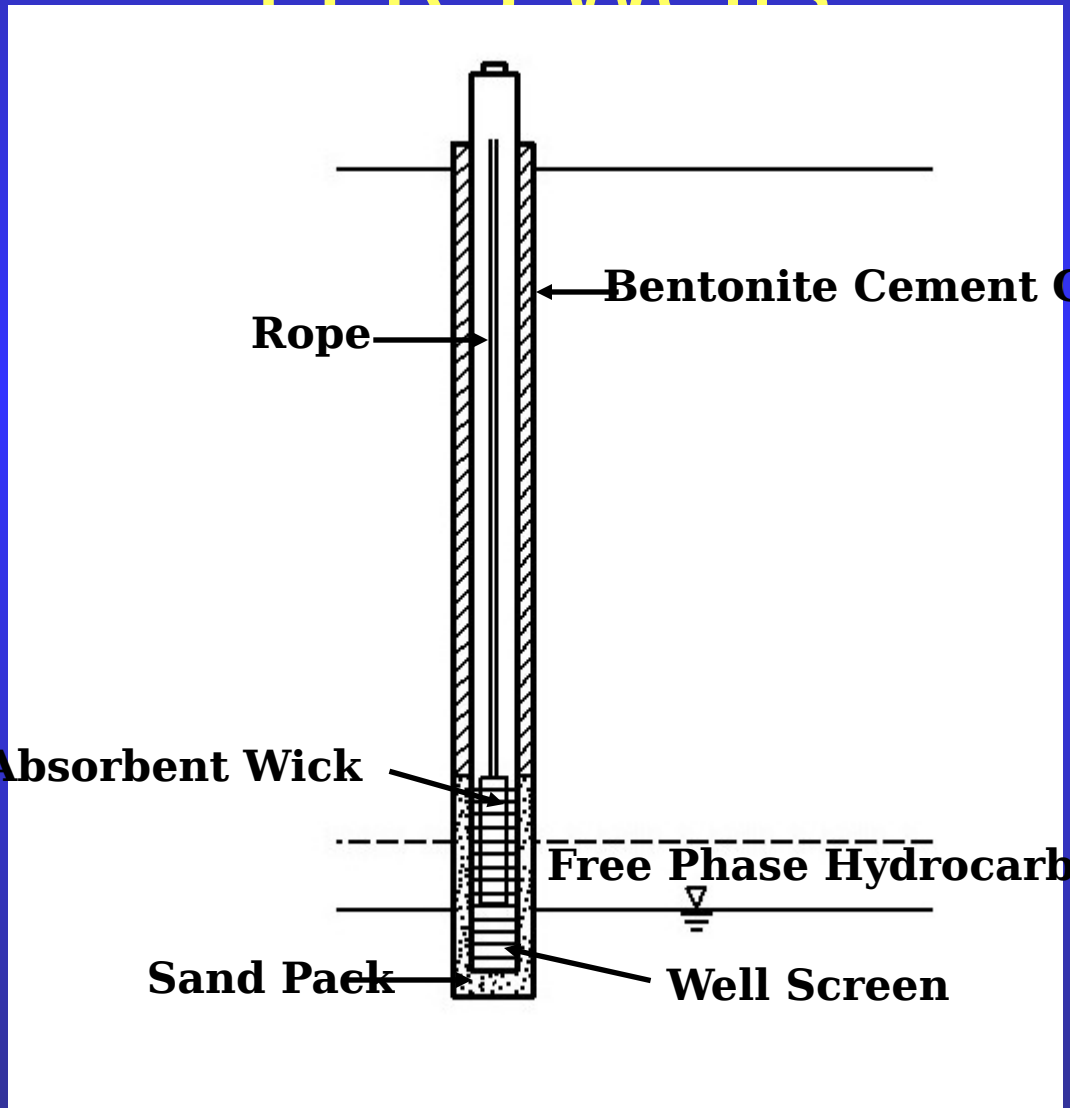
June 13, 2002


JP-4 Spill Site A
Fuel Storage Tank
RICHARD RAY BLVD.
N
0'
400'
800'
SCALE
52534004

Background

- Early 1970s- estimated 60,000 gallons of JP-4 fuel overflowed from a tank in the Fuel Storage Farm
  - Action: Small portion was recovered
- 1997- Corrective Action Plan
  - Remedial objective: 5 ppb of benzene
  - Free Product Recovery System (FPRS): Installed 1996 and operated 1996-1999
  - Bioventing system: Installed 1997 and operated 1997 to present

Cross-Sectional Schematic Diagram of FPBS Wells



A Successful Application of Innovative Remedial Technology

- Use of bioventing system to remediate JP-4 contaminated soil
- System circulates air to facilitate biodegradation of petroleum compounds

A Successful Application of Innovative Remedial Technology

- System consists of :
  - 2 blowers to deliver air
  - 12 injection wells
  - 6 pressure monitoring points
- System efficacy monitored by annual soil sampling and respiration testing

Bioventing System

Changes of Benzene Concentrations

- At the 3 foot depth: benzene reduced from 2500 ppb to non-detect
- At the 5 foot depth: benzene reduced from 8000 ppb to non-detect
- At the 7 foot depth: benzene reduced from 2500 ppb to non-detect

Monitoring of Remedial Progress

- 1997 – 2001: soil samples collected annually from four sample locations
- 2001: soil samples collected from 17 locations to confirm the completion of benzene remediation
  - **Benzene was not detected in any soil samples in 2001**
- 1998-2001: respiration testing conducted to verify biological activities
- Annual progress reports to GA EPD

Summary

- All free product recovered by FPRS in 1999
- Bioventing system successfully operated and eliminated benzene in JP-4 contaminated soil
- Site remedial objective of 5 ppb benzene achieved

Current Status

- Remedial progress has been reported to GA EPD
- Public meeting to inform community of completion of remedial action
- Site Closure expected following permit modification